Winding wires of specially high ...

S/196/63/000/001/014/035 E194/E155

but have the disadvantage of sensitivity to thermal shock. Insulation based on lacquer \(\tau\_{-1}\) (TL-1) is similar in properties to that based on varnish 124 but is less sensitive to thermal shock. Conductors are also insulated with block-polymer lacquer K-62 and Conductors are also insulated with block-polymer lacquer K-62 and their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved by using nickel-plated copper their heat stability may be improved

temperatures. Group 2 includes conductors with fluoroplastic film insulation and with insulation produced by treating the wire with a suspension of with insulation produced by treating the wire with a suspension of fluoroplastic and its copolymers. Such conductors are capable of fluoroplastic and its copolymers. Such conductors film prolonged operation at  $523~\rm K$  (250°C). Fluoroplastic film prolonged operation at  $523~\rm K$  (250°C).

card 2/04

Winding wires of specially high ... 5/196/63/000/001/014/035 E194/E155

Group 3. Abroad, flexible inorganic insulation is produced by applying a composition of K20.Pb0.SiO2 0.015-0.04 mm thick. The Sprague Electric Company (USA) produces conductors grades Segos ST. Segos NT and Tetros for prolonged operating temperatures of 573-623 K (300-350 °C), in which the copper is protected from oxidation by nickel or by a nickel-cobalt alloy (Segos NT). These conductors were investigated by NIIKP and the following properties conductors were investigated by NIIKP and the following properties were found: breakdown voltage 300 - 600 V, falling to 150 - 200 V were found: breakdown voltage 300 - 600 V, falling to 150 - 200 V after prolonged exposure at 573-673 K (300-400 °C); the mechanical strength lies between wires grade N3B-1 (PEV-1) and grade N3L (PEL); elasticity is good and the wires withstand winding round a (PEL); elasticity is good and the wires withstand winding round a former with a diameter 3 - 4 times that of the wire when subjected to a temperature of 573 K (300 °C) for 4 - 5 days. NIIKP is developing the manufacture of these wires.

Group 4. Wires grade NCAK (PSDK) can operate at 623 K (350 °C) Group 4. Wires grade NCAK (PSDK) can operate at 623 °K (350 °C) Grade NCAKT (PSDKT) can operate 300 - 400 hours at 573 °K (400 °C) and for up to 30 - 50 hours at 673 °K (400 °C). NIIKP is working to improve the thermal stability by using special Card 3/ Qu

s/196/63/000/001/014/035 E194/E155

Winding wires of specially high ...

fibre-glass (hitherto ordinary alkali-free glass has been used) and by reliably protecting the wire against oxidation in the following ways: by applying a thin sheath of aluminium (bimetallic wire); by using intermediate coatings between the wire and the aluminium (trimetallic wires Cu-Ag-Al, Cu-Ni-Al); and by nickel electroplating. The use of nickel-plated copper wire increased the heat stability of winding wires grade NHC LK (PNSDK) and NHCAKT (PNSDKT) (temporary technical conditions applicable to these grades are tabulated). Figs 2 and 3 show curves of R and tan & of these wires against temperature. 15 references.

[Abstractor's note: Complete translation.] 8 figures.

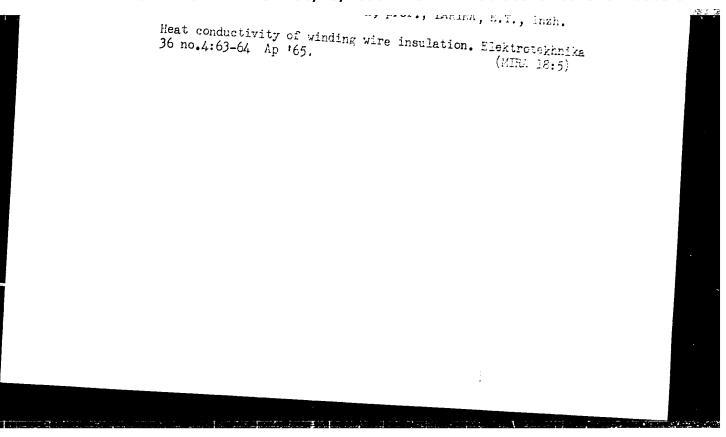
Card 4/14

PRIVEZENTSEV, V.A., doktor tekhn. nauk; SLAVIN, R.M., kand. tekhn.
nauk; KHOLODNYY, S.D., kand. tekhn. nauk; BABAKHANOV, Yu.M.,
inzh.

Study of polychlorovinyl insulation of winding wires of
water cooled electric motors. Elektrotekhnika 36 no.8:
4-9 Ag '64.

(MIRA 17:9)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343110005-3"



BELORUSSOV, Nikolay Ivanovich, inzh.; GLUPUSHKIN, Petr Mikhaylovich, kand. tekhn. nauk; KONSTANTINOV, Marsaliy Valer'yanovich, inzh.; PESHKOV, 'zyaslav Borisovich, kand. tekhn. nauk; PRIVEZENTSEV, Vladimir Alekseyevich, doktor tekhn. nauk; TROITSKIY, Igor' Dmitriyevich, kand. tekhn. nauk; FEDOSEYEVA, Yelena Georgiyevna, kand. tekhn. nauk; FRIDMAM, Aron Solomonovich, inzh.; RYZHIKHINA, Ye.G., red.

[Cables and wires] Kabeli i provoda. Moskva, Energiia. Vol.3. 1964. 469 p. (MIRA 17:12)

PRIVEZENTSEV, V.A., doktor tekhn. nauk, prof.; ANIKEYENKO, V.N., inzh.

Heat resistance of copper and aluminum heavy-duty enameled wires. Elektrotekhnika 35 no.9:30-31 S '64.

(MIRA 17:11)

PRIVEZENTSEV, V.A., doktor tekhn. nauk, prof.

Winding wire with exceptionally high heat resistance.
Trudy MEI no.39:325-340 '62. (MIRA 17:6)

AZOVSKIY, Yu.S.; GUZHOVSKIY, I.T.; DUSHIN, L.A.; PRIVEZENTSEV, V.I.; CHURAYEV, V.A.

Mocrowave methods for studying plasma clots. Inzh.-fiz. zhur. 6 no.9:57-60 S '63. (MIRA 16:8)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

ACCESSION NR: AT4036080

s/2781/63/000/003/0357/0364

AUTHORS: Dushin, L. A.; Privezentsev, V. I.; Skibenko, A. I.

TITLE: Microwave methods of plasma measurement in an external mag-

SOURCE: Konferentsiya po fizike plazmy\* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy\* i problemy\* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady\* konferentsii, no. 3. Kiev, izd-vo AN Ukrssk, 1963, 357-364

TOPIC TAGS: plasma research, microwave plasma, plasma magnetic field interaction, plasma decay, plasma concentration

ABSTRACT: The theory of propagation of radio waves in magnetoactive plasma (V. L. Ginzburg, Rasprostraneniye elektromagnitny\*kh voln v plazme, Fizmatgiz, M., 1960) is used as a basis for an experimental

Card 1/5

ACCESSION NR: AT4036080

investigation of transverse propagation of a plasma in a pulsed Philips source described elsewhere (L. A. Dushin et al. UFZh, 1963) with a discharge tube made of molybdenum glass 130 cm long and 10 cm in diameter. An external homogeneous magnetic field of sinusoidal form was used with a period much longer than the lifetime of the plasma. The field amplitude could be varied from 0 to 640 kA/m. measurements were made during the time of plasma decay. Experiments were made also for longitudinal propagation of the plasma. have shown that the use of longitudinal propagation for diagnostics can be quite effective in the case of a high-density plasma, when measurements at relatively low frequencies (compared with the plasma frequency) are possible. High accuracy can be attained by satisfying the conditions of geometrical optics, choosing the ratio of the time of pulse passage to the period of the signal frequency, and allowing for the inhomogeneity of the plasma. The experiments indicate that the methods described can be useful for a permanent or quasipermanent magnetic field. The use of transverse propagation is

Card 2/5

ACCESSION NR: AT4036080

particularly effective when the magnetic field is on the low side of resonance and close to it. Longitudinal propagation is effective when the electron density of the plasma varies little along the length of the column. Longitudinal measurements are also convenient because high plasma concentrations can be measured with the aid of decimeter and centimeter wavelengths. Orig. art. has: 7 figures and 17 formulas.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 21May64

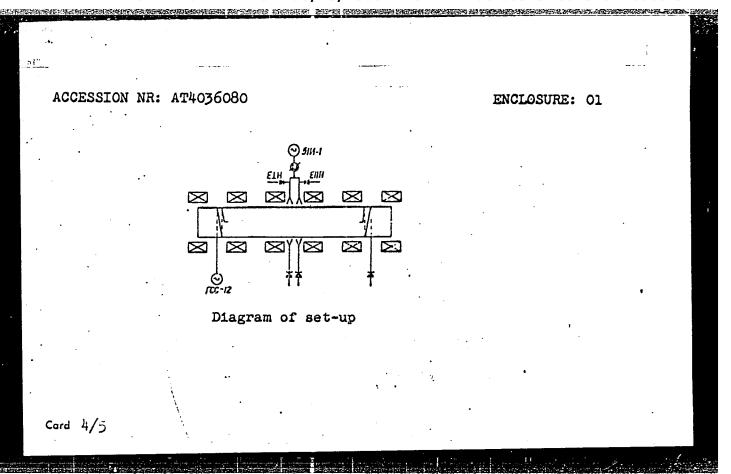
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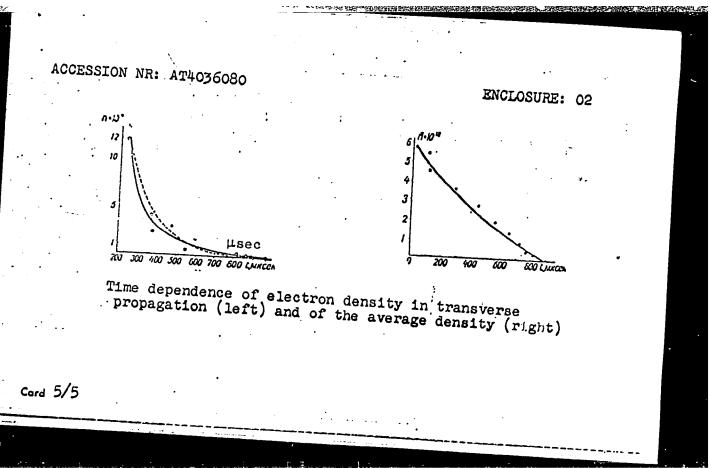
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NR REF SOV: 003

OTHER: 001

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SOURCE CODE: UR/0000/65/000/000/0189/0198

AUTHOR: Dushin, L. A.; Kononenko, V. I.; Kovtun, R. I.; Privezentsev, V. I.;

ORG: Jone

TITLE: Studying a plasma by probing with microwaves

SOURCE: AN UkrSSR. Magnitnyye lovushki (Magnetic traps). Kiev, Naukova dumka, 1965, 189-198

TOPIC TAGS: microwave, plasma structure, plasma density, distribution function

ABSTRACT: The authors determine the spatial density distribution function for a plasma by comparing the average density measured by a microwave interferometer with the maximum density determined from the cutoff time of the microwave signals. These data were used for finding the recombination and diffusion coefficient and for estimating the electron temperature in the discharge. The experimental procedure is described in detail and the derivation of the analytical formulas used in the work is discussed. It is shown that curves for the average and maximum plasma densities or their logarithms as functions of time will coincide as long as there is no noticeable diffusion to destroy the initial distribution. The results confirm the data in the literature obtained by spectroscopic analysis of a Phillips discharge. Orig. art. has: 4 figures, 17

SUB CODE: 20/

SUBM DATE: 200ct65/

ORIG REF: 005/

OTH REF: 002

7

<u>Card</u> 1/1

L 23564-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m)ACC NR: AT6008857 IJP(c) GS/AT SOURCE CODE: UR/0000/65/000/000/0166/0179 Dushin, L. A.; Kovtun, R. I.; Privezentsey, V. I.; Skibenko, A. AUTHOR: ORG: none 8+1 TITLE: Microwave refraction by a nonhomogeneous cylindrical plasma SOURCE: AN UkrSSR. Magnitnyye lovushki (Magnetic traps). Kiev, Naukova dumka, 1965, TOPIC TAGS: microwave, plasma density, plasma physics, distribution function ABSTRACT: The authors consider transmission of microwave beam through a cylindrical plasma with radial density distribution of the form  $\frac{N(r)}{N_{cr}} = k[1 - (\frac{r}{r_0})^{\gamma}]$ and  $N_{\text{max}}$  is the density at the axis of the cylinder. pression is integrated with respect to the radius and then averaged to give Card 1/2

## L 23564-66

## ACC NR: AT6008857

where  $\overline{N}$  is the density averaged with respect to the radius. Thus a distribution function may be easily found which gives a nearly homogeneous form of distribution at large  $\gamma$  and is close to a 6-function when  $\gamma \! + \! 0$ , by simultaneously measuring the maximum density and the density averaged with respect to the radius. The trajectory of a microwave beam in a cylindrical plasma is calculated and the effect of beam distortion during measurement of signal attenuation is considered. Experiments are conducted to determine the density distribution in a discharge column. The experimental data are analyzed on the basis of the formulas derived in the paper. Orig. art. has: 8 figures, 21 formulas.

SUB CODE: 20/ SUBM DATE: 200ct65/ ORIG REF: 006/ OTH REF: 004

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### CIA-RDP86-00513R001343110005-3 "APPROVED FOR RELEASE: 06/15/2000

EWT(1)/EWA(h) L 17003-66 SCTB DD

ACC NR: AT6003893

SOURCE CODE: UR/2965/65/004/000/0573/0580

2

AUTHOR: Maystrakh, Ye. Y.; Illyutkin, G. N.; Konstantinov, V. A.; Yeremenko, I. V. Krasil'nikov, S. A.; Lysenko, O. Yu.; Matsatsa, V. F.; Privezentsev, V. I

ORG: none

TITLE: Automatic apparatus to create reversible and controllable hypothermia for

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 573-580

TOPIC TAGS: cybernetics, hypothermia, space physiology, physiologic parameter,

ABSTRACT: The authors designed and tested an apparatus consisting mainly of a set of sensors of physiological functions and a logical device to process the readings of the sensors and to issue the appropriate commands for heating or cooling should the established parameters (e.g., rectal temperature, skin temperature, depth of respiration, arterial pressure, motor activity) be exceeded. The apparatus functioned very efficiently in experiments on 16 dogs with a body temperature of 22-

Card 1/2

L 17003-66 ACC NR: AT6003893

-25°C. The apparatus cooled the body to the prescribed level, maintained the desired level of hypothermia and state of anesthesia for up to 24 hours, and restored normal body temperature. The authors recommend a continuation of research with a view to perfecting the sensing elements, increasing the amount of information to be processed (brain and heart biopotentials), and providing the logical and control system with means of self-instruction and self-organization. Orig. art. has: 2 figures, 1 table.

SUB CODE: 05/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 2/2 7/97

MAYSTRAKH, Ye.V.; IL'YUTKIN, G.N.; KONSTANTINOV, V.A.; YEREMENKO, I.V.; KRASIL'NIKOV, S.A.; LYSENKO, O.Yu.; MATSATSA, V.F.; PRIVEZENTSEV. V.I.

Automatic unit for developing reversible and controllable hypothermia for possible use in space flight. Probl. kosm. biol. 4:573-580 '65. (MIRA 18:9)

EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2ACCESSION NR: AP5024128 LIP(c) AT UR/0185/65/010/009/0977/0984 AUTHOR: Dushin, L. O. (Dushin, L. A.); Kononenko, V. I.; Kovtun, R. I.; 44 Pryvezentsev, V. I. (Privezentsev, V. I.); Skybenko, A. I. (Skibenko, A. I. TITIE: Plasma investigation by means of the interferometer and the microwave SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 9, 1965, 977-984 TOPIC TAGS: plasma decay, plasma measurement, plasma diffusion, plasma electron temperature, plasma diagnostics ABSTRACT: The present paper describes a method for the study of plasma decay permitting a simultaneous measurement of phases and amplitudes of signals transmitted through the plasma. The phases were measured at 136 Gc/s and the amplitudes at 136.74 and 37 Gc/s. A method for plasma diagnostics by means of signals with different frequencies is also presented. An approximation of the radial plasma density distribution by means of the  $F = 1 - (r/R)^{\gamma}$  function is discussed ( ) is estimated by the measured mean electron density and the maximum density decrease, R is the radius of the plasma cylinder). An estimate is also made of the relative contributions of recombination and diffusion to the plasma decay process. In the Card 1/2

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satisfactory a and 2 tables,	th the temperature greement of both m	dominant, the recombination on temperature was deduced. value obtained by microway ethods. Orig. art. has: 2	A comparison of this /e attenuation indicates 27 formulas, 2 figures,	
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		OTHER: 004	SUB CODE: ME	
DEMITTED: 09N			SUB CODE: ME	

ACCESSION NR: AT4025301

5/0000/63/000/000/0117/0123

AUTHORS: Dushin, L. A.; Privezentsev, V. I.; Skibenko, A. I.

TITLE: Measurement of longitudinal radiowave propagation for plasma diagnostics

SOURCE: Diagnostika plazmy\* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 117-123

TOPIC TAGS: plasma concentration, plasma electromagnetic property, electromagnetic wave propagation, phase shifter, phase velocity, group velocity

ABSTRACT: It is shown that the density of the plasma can be determined by measuring the phase shift of a radio wave transmitted through the plasma. The propagation of the signal in the ionized plasma in the magnetic field is characterized in the case of longitudinal propagation by the phase and group velocities of the signal. Con-

Card 1/5

ACCESSION NR: AT4025301

sequently, by measuring the delay time of the signal it is possible to determine the electron density at a given instant of time. Experiments were performed using a pulsed source with a molybdenum-glass discharge tube 10 cm in diameter and 130 cm long. The magnetic field could be varied from 0 to 8000 Oe. A 550 Mc signal was used, and helical antennas were used for the radiation and reception of the signal. The time dependence of the average density was determined from oscillogram patterns of signals of wavelengths 55 cm for longitudinal propagation and 8 mm for transverse propagation of the extraordinary and ordinary waves (magnetic fields 1400 Oe, pressure approximately  $10^{-2}$  mm Hg, sweep duration 1200 µsec). The results obtained (delay 0.12 µsec, density 2 x  $10^{14}$  cm<sup>-3</sup>) agree well with theory and also with other experiments (O. Pavlichenko, L. Dushin "Optika i spektroskopiya" v. 12, 541, 1962). Orig. art. has: 4 figures and 10 formulas.

ASSOCIATION: None

Card 2/5

ACCESSION NR: AT4025301

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DATE ACQ: 16Apr64

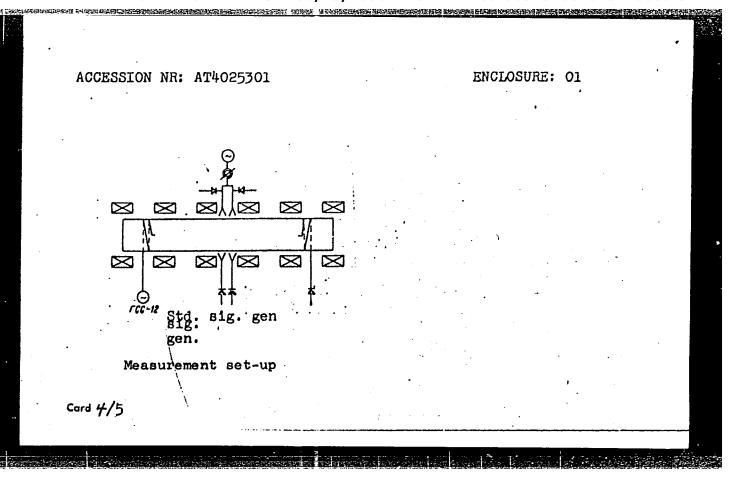
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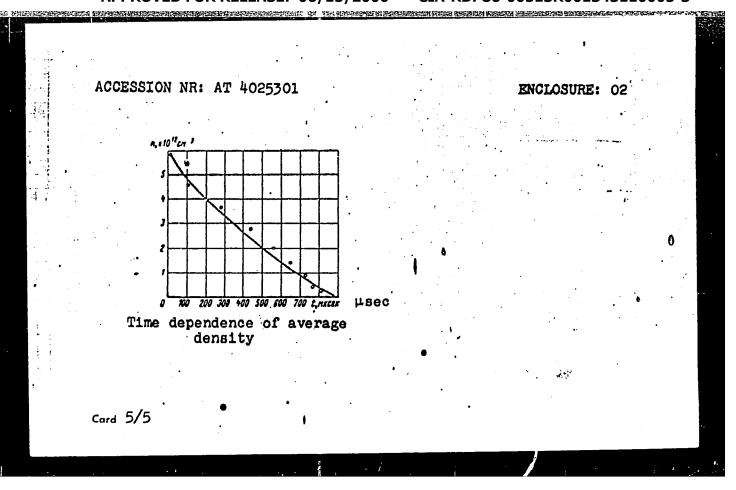
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s/2781/63/000/003/0348/0353

AUTHORS: Azovskiy, Yu. S.; Guzhovskiy, I. T.; Dushin, L. A.; Privezentsev, V. I.; Churayev, V. A.

TITLE: Microwave methods of plasmoid diagnostics

SOURCE: Konferentsiya po fizike plazmy\* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy\* i problemy\* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady\* konferentsii, no. 3. Kiev, Izd-vo AN UkrssR, 1963, 348-353

TOPIC TAGS: plasmoid, plasmoid acceleration, plasma source, plasma density, plasma wave reflection, plasma wave absorption, Doppler

ABSTRACT: Several microwave methods used to determine the density and translational velocity of charged particles in a plasmoid. Card 1/5

16

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ACCESSION NR: AT4036078

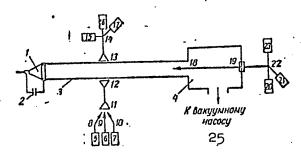
plasmoids were obtained with a conical source from a 6.1 µF capacitor bank. The plasmoid propagated in a glass tube 60 mm in diameter and 1.2 meters long. The pressure in the vacuum system did not exceed 2.7 x 10 n/m². The electron density was determined from the "cutoff" of the microwave signal, corresponding to the critical density for the given frequency. The plasmoid velocity was determined by the Doppler effect, except that the velocity of the layer with low electron density (10 -10 ll cm²) was determined by measuring the detuning of a cavity resonator. The tests have shown that different layers of the plasmoid move with different velocities and this causes the leading front of the plasmoid to become less steep as it moves. "The authors are grateful to B. G. Safronov for a discussion of the results and to 0. G. Zagorodny\*y for useful advice during the measurements with the cavity resonator." Orig. art. has: 7

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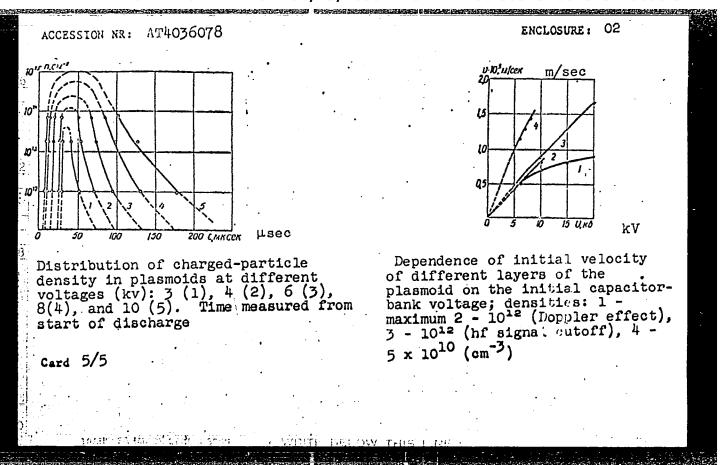
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ENCLOSURE: 01



Block diagram of set-up: 1 - conical source; 2 - capacitor bank; 3 - glass tube; 4 - vacuum chamber; 5, 6, 7, 21 - generators; 8, 9, 10, 18 - dielectric antennas; 11 - input horn of waveguide channels; 12, 13 - horns irradiating the plasma; 14, 22 - double waveguide tees; 15, 16, 17; 23 - detector heads; 20 - matching unit; 19 - vacuum seal, 25 - to vacuum pump

Card 4/5



L 15596-63 EWT(1)/EWG(k)/BDS/ES(w)-2 AFFTC/ASD/ESD-3/AFWL/SSD Pz-4/Pi-4/Po-4/Pab-4 AT/IJP(C)

ACCESSION NR: AP3006492

8/0170/65/006/009/0057/0060

AUTHOR: Azovskiy, Yu. S.; Guzhovskiy, I. T.; Dushin, L. A.; Privezentsev, V. I.; Churayev, V. A.

TITLE: Microwave methods for diagnosing plasmoids

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 9, 1963, 57-60

TOPIC TAGS: plasmoid electron concentration distribution, plasmoid critical electron density, plasmoid sharp front boundary, plasmoid velocity measurement

ABSTRACT: This article describes microwave methods for diagnosing plasmoids. The distribution of electron concentration in a plasmoid was studied and the velocity of the plasmoid determined. Plasmoids were produced by means of the discharge of a capacitor bank (6  $\mu$ f), through a conical source, and were propagated in a glass tube (6 cm in diameter and 120 cm in length) with a residual pressure not exceeding 2 x 10<sup>3</sup> newtons per square meter. Probing of plasmoids was carried out at three frequencies: 9 x 10<sup>9</sup>, 37.5 x 10<sup>9</sup>, and 75 x 10<sup>9</sup> cps, which correspond to critical electron densities of  $10^{12}$ , 1.7 x  $10^{13}$ , and 7 x  $10^{13}$  cm<sup>-3</sup>, respectively. The transmitting and receiving antennas were placed at a distance of 50 cm from the plasmoid source. It was found that plasmoids have a sharp front boundary.

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L 15596-63

ACCESSION NR: AP3006492

The plasmoid electron density at a 3-kv capacitor voltage was on the order of  $10^{13}$  cm<sup>-3</sup>. With an increase in voltage the electron density also increased to a value of  $10^{15}$  cm<sup>-3</sup> at a voltage higher than 10 kv. The velocities of plasmoids with electron densities of  $10^{12}$  cm<sup>-3</sup> have been measured by the Doppler effect. Velocity measurements of low-density plasmoids  $(10^{10}-10^{11}$  cm<sup>-3</sup>) were made by a method which employs a cavity resonator (9.6 cm in diameter and 100 cm in length) in which the H<sub>11</sub> mode was excited at a frequency of 2.5 x  $10^9$  cps. A plasmoid was simulated by means of a metallic rod inserted into a glass tube placed inside the resonator. The insertion of the rod resulted in the detuning of the reconstor and, at points corresponding to the cavity resonance dimensions, resulted in a sharp increase in the indicator voltage. From readings taken at various voltages across the capacitor bank, graphs were plotted of distance versus time for plasmoids with a density of 5 x  $10^{10}$  cm<sup>-3</sup>. These graphs showed that different plasmoids moved with different speeds, which resulted in a decrease of the steepness of the plasmoid front as it moved along the tube. Orig. art. has: 4 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN USSR, Khar'kov (Physicotechnical Institute, AN USSR)

Card 2/32

## S/781/62/000/000/033/036

AUTHORS: Dushin, L. A., Kononenko, V. I., Privezentsev, V. I., Skibenko, A. I.,

Tolok, V. T.

TITLE: Microwave plasma diagnostics

Fizika plazmy i problemy upravlyayemogo termoyadernogo sinteza; SOURCE:

doklady I konferentsii po fizike plazmy i probleme upravlyayemykh termoyadernykh reaktsiy. Fiz.-tekh. inst. AN Ukr. SSR. Kiev, Izd-vo

AN Ukr. SSR, 1962, 156-164

Several methods of plasma diagnostics are described, based on the interaction between the electromagnetic field and the plasma, with the electric field of the wave parallel to the external magnetic field, so that the external magnetic field does not influence the character of propagation of the microwaves used for the measurements. The real and imaginary parts of the coefficient of propagation of a microwave signal thorugh a plasma determine the attenuation and the phase constant of the wave. The plasma density is determined by the frequency at which the microwave signal ceases to pass through the plasma. The character, of variation of the microwave signal as a function of the pressure was also

Card 1/2

Microwave plasma diagnostics

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determined. Measurements of the variation of the phase and attenuation of the signal make it possible to follow the variation of the density and the electron collision frequency during the decay of the plasma. Phase measurements yielded also data on the distribution of electron density along the radius. At the present time the use of microwave diagnostics is limited by the capabilities of the microwave radiation sources. Present microwave generators have sufficient power to diagnose plasmas with electron densities near  $10^{15}$  per cu. cm. Once submillimeter equipment is available, the densities can probably raised to  $10^{16}$ - $10^{18}$  el/cm<sup>3</sup>. There are 11 figures. Reference is made to work by Wharton (ref. 4, Microwave diagnostics for controlled fusion research, UCRL, 1957) and by Wharton and Slager (J. Appl. Phys. 31, 428 - 430, 1960).

Card 2/2

	ACC NR: AT5028593 SOURCE CORE	52,550	eszesa.
	AUTHOR: Dushin, L. A.; Privezentsev, V. I.; Skibenko, A. I.	7	
	9/)		
. i.	SOURCE: WKonferenteins and a state of transverse extraordinary waves in plasma diagnostics		
	sintera little plazmy i problem		
	doklady konferentsii, no. 4. Kiev, Naukova dumka loss thermonuclear synthesis):		
	TOPIC TAGS: plasma diagnostics, microwave spectrum		
	both electron described the microwave diagnostic technic		
1	of the dielectric constant associated with the cutture description of the dielectron description descr		
	data obtained using the ordinary wave. In the core of agreement with the control		
1	cannot be neglected, it is necessary to consider the attenuation of the extraordinary wave, which depends on magnetic field intensity, collision frequency, and density. An		
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attenuat	AT5028593	nt is plotted	l for severa	l sets of	these p	arameters. Th	is is in		
turn used with the ordinary wave cut-off data to obtain the collision frequency.  Experimental data obtained by using both waves (8 mm wavelength) is used to determine the collision frequency in the decaying plasma of a pulsed Phillips discharge. Phase									
changes in the transmitted wave are also briefly discussed, and it is pointed out that its measurement can be useful for diagnostics only at higher magnetic fields.  [14]									
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EWT (1)/ETC/EPF(n)-2/EWG(m) IJP(c) AT/GS L 10238-66 SOURCE CODE: UR/0000/65/000/000/0519/0526 AT5028594 ACC NR: 44,55 44,55 44,55 Dushin, L. A.; Privezentsev, V. I.; Skibenko, A. I. AUTHOR: ORG: none TITLE: Microwave methods of plasma diagnostics employing longitudinal propagation of radiowayes SOURCE: Konferentsiya po fizike plazmy i problemam upravlyayemogo termoyadernogo sinteza. 4th, Kharkov, 1963. Fizika plazmy i problemy upravlyayemogo termoyadernogo sinteza (Physics of plasma and problems of controllable thermonuclear synthesis); doklady konferentsii, no. 4, Kiev, Naukova dumka, 1965, 519-526 21,44,55 21,44,55 TOPIC TAGS: plasma diagnostics, microwave spectroscopy ABSTRACT: Application of microwaves propagating in plasma along the direction of the external magnetic field is considered in order to broaden the scope of measurements of plasma parameters. The general form of the index of refraction for both ordinary and extraordinary waves which is valid for some arbitrary direction of the magnetic field relative to the direction of the incident wave is considered. The form of the phase and the attenuation coefficient for the wave in the same degree of generalization is also utilized. Both hold for situations where the collision frequency is not negligible. The values of magnetic field density and collision fre-Card 1/2 7

L 10238-66

ACC NR: AT5028594

quency are delineated to establish the regions of propagation of ordinary and extraordinary waves. Additionally, it is pointed out that since the travel time of the probing microwave signal depends on the plasma density (and is inversely proportional to group velocity), the delay between sending and receiving the signal can also be utilized for determination of plasma parameters. For this purpose, the group velocity for various densities and magnetic fields is plotted for both types of waves. The phase relation, attenuation coefficient and the delay time were used in an experimental study of plasma parameters. Maximum magnetic field obtainable was 796 kamp/m. To check these results a transversely propagating wave of shorter wavelength was also used. The measurements so obtained confirm the validity of the new method described in this work. The new method can be used to study plasmas with densities higher than the cutoff density and make it possible to determine the collision frequency at the same time. Orig. art. has: 8 figures, 9 formulas.

SUB CODE: 09, 17/ SUBM DATE: 20May65/ ORIG REF: 003/ OTH REF: 002 ATD PRESS: 4/63

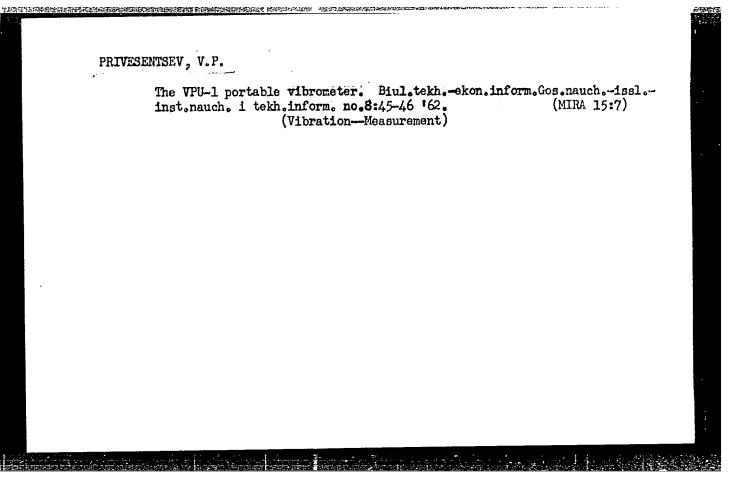
Card 202

DUSHIN, L.A. [Dushyn, L.O.]; KONONENKO, V.I.; KOVTUN, R.I.; PRIVEZENTSEV, V.I. [Pryvezentsev, V.I.]; SKIBENKO, A.I. [Skybenko, A.I.]

Use of an interferometer and the microwave cut-off method in studying a plasma, Ukr. fiz. zhur. 10 no.9:977-984 S '65.

(MIRA 18:9)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.



PRIVEZENTSEV, Ya.G.; IGNATENEO, V.Ya., master kamennykh rabot.

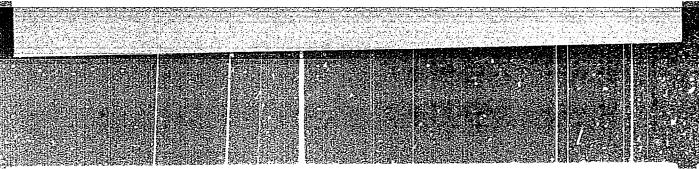
Improving furnace resistance. Metallurg 2 no.1:18 Ja '57.

(MIRA 10:4)

1. Nachal'nik martenovskogo tsekha no.1 (fer Privezentsev)

2. Zhdanovskiy zazad im. 11'icha (fer Ignatenko)

(Open hearth furnaces) (Refractory materials)



<u>, (</u>

AUTHOR:

Privezentsev, Ya.G. Manager, And Jgnatenko, V.Ya. Foreman

Mason No. I shop at the Zhdanov im. Ilich Works.

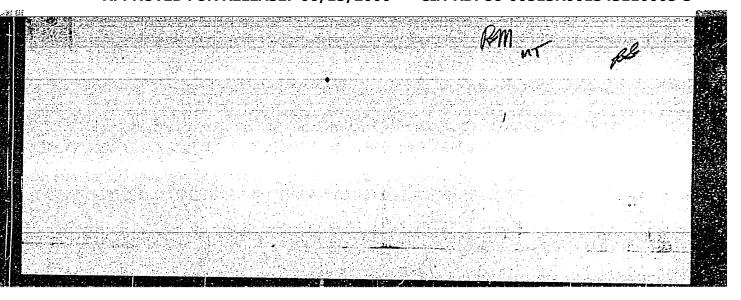
TITIE:

Improving furnace life (Uluchshenie Stoykosti Pechey).

PERIODICAL: "Metallurg" (Metallurgist), 1957, No. 1, p. 18, (U.S.S.R.)

ABSTRACT:

Successive changes in checker material for O.H. furnace regenerators and in furnace bricks are described. Latest practice in No. 1 O.H. shop is to use chrome-magnesite and fireclay bricks for the upper and other layers, respectively, of the regenerators; during cold repairs the checkers are blasted with air at 3 - 4 atm. gauge. For the furnace front arches and columns and for the back wall above the slag zone, ordinary chrome-magnesite bricks with metal spacers are now used. Cut chrome-magnesite bricks are used for the skew-backs. Considerable (but unspecified) economies in fuel and refractory consumption and in metal costs as well as increases in productivity are said to have resulted from these measures.



kand.ekonom.nauk; GOL'DBERG, Abram Mikhaylovich, starshiy prepo-

davatel': PRIVEZENTSEVA, A.G., red.; PYATAKOVA, N.D., tekhn.red. [Statistical study of labor productivity in industry; based on materials of the Odessa Economic Council] Statisticheskoe

izuchenie proizvoditel nosti truda v promyshlennosti; po materialam predpriiatii Odesskogo sovnarkhoza. Moskva, Gos.stat. (MIRA 13:2) izd-vo, 1959. 129 p.

Odessa Province -- Productivity accounting)

ZASTENKER, Grigoriy Semenovich; ZHAK, D.K., kand. ekon. nauk, red.; PRIVEZENTSEVA, A.G., red.; PYATAKOVA, N.D., tekhn. red.

元年四年4月至6日中国1000日日日本市市区1000日日本市区1000日本市区1000日本市区1000日本市区1000日本市区1000日本市区1000日本市区1000日本市区1000日本市区1000日本市区1000日本市

[Planning machine accounting with the use of digital punched card machines] Proektirovanie mekhanizirovannogo ucheta s primeneniem tsifrovykh schetno-perforatsionnykh mashin; uchebnoe posobie dlia podgotovki proektirovshchikov mekhanizirovannogo ucheta. Moskva, Gosstatizdat, 1963. 487 p.

(MIRA 16:8)

(Machine accounting) (Punched card systems)

DARAGAN, M.V.; HUTKOVSKAYA, N.V.; BRONSHTEYN, P.B.; PRIVEZENTSEVA, A.G., red.; PYATAKOVA, N.D., tekhn.red.

[Labor statistics in industry and construction] Statistika truda v promyshlennosti i stroitel'stve. Moskva, Gosstatizdat TsSU SSSR, 1960. 122 p. (MIRA 13:9)

(Industrial statistics)

PUGACHEVA, Antonina Aleksandrovna; PRIVEZENTSEVA, A.G., red.;
PYATAKOVA, N.D., tekhn. red.

[Methods for the economic and statistical analysis of processes involved in the supply of materials and equipment] Metody ekonomiko-statisticheskogo analiza protsessov material no-tekhnicheskogo snabzheniia. Moskva, Izdvo "Statistika," 1964. 93 p. (MIRA 17:3)

VYKHODTSEV, Semen Vasil'yevich; BAKLANOV, G.I., red.; DZHAPARIDZE, V.V., red.; PRIVEZENTSEVA, A.G., red.; PYATAKOVA, N.D., tekhn. red.

[Statistics of the petroleum industry]Statistika neftianoi promyshlennosti. Moskva, Gosstatizdat 1962. 278 p.

(MIRA 16:4)

(Petroleum industry—Statistics)

KVASHA, Yakov Bentsienovich; PRIVEZENTSKVA, A.G., red.; PYATAKOVA, N.D., tekhn.red.

[Statistical study of labor mechanization] Statisticheskoe izuchenie mekhanizatsii truda. Moskva, Gos.stat.izd-vo, 1959. 144 p. (MIRA 12:10)

(Machinery in industry -- Statistics)

ADAMOV, Vladimir Yevgen'yevich; BAKLANOV, G.I., red.; PRIVEZENTSEVA, A.G., red.

的。 1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1

[Statistical study of the regular flow of industrial production] Statisticheskoe izuchenie ritmichnosti promyshlennogo proizvodstva. Moskva, Statistika, 1965. [86 p. (MIRA 18:4)

PEREGUDOV, Vladimir Nikitich; PRIVEZENTSEVA, A.G., red.

[Method of least squares and its use in research] Metod naimen'shikh kvadratov i ego primenenie v issledovanijakh. Moskva, Statistika, 1965. 339 p. (MIRA 1826)

SADEKOV, Mansur Makhmutovich, kand.ekonom. nauk; YAKOVLEV, Vasiliy Mikhaylovich; PRIVEZENTSEVA, A.G., red.; PRYTKOVA, R.N., tekhn. red.

TO THE STATE OF THE PROPERTY O

[Statistics of retail prices in state and cooperative trade] Statistika roznichnykh tsen gosudarstvennoi i kooperativnoi torgovli. Moskva, Gosstatizdat TsSU SSSR, 1961. 93 p. (MIRA 15:2)

(Retail trade) (Prices)

MARKUZON, Fedor Davidovich; PRIVEZENTSEVA, A.G., red.; SHULEVICH, B.Ya., red.; VASIL'KOVA, Ye.V., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Sanitation statistics in prerevolutionary Russia and in the U.S.S.R.] Ocherki po sanitarnoi statistike v dorevoliutsionnoi Rossii i v SSSR. Moskva, Gosstatizdat, TsSU SSSR, 1961. 129 p. (Sanitation—Statistics) (MIRA 15:2)

MAIZEL'S, David L'vovich; PRIVEZENTSEVA, A.G., red.; BUDYANSKIY, I.V., red.; KAPRALOVA, A.A., tekhn. red.

[Statistics of capital construction]Statistika kapital'nogo stroitel'stva. Moskva, Gosstatizdat, 1962. 238 p. (MIRA 15:10)

(Construction industry-Statistics)

j.

BATKIS, Grigoriy Abramovich, pro: (1895-1960); MERKOV, A.M., prof., red.; PRIVEZENTSEVA, A.G., red.

[Problems in health and vital statistics; selected works]
Voprosy sanitarnoi i demograficheskoi statistiki; izbrannye proizvedeniia. Moskva, "Statistika," 1964. 289 p.
(MIRA 17:6)

1. Chlen-korrespondent AMN SSSR (for Batkis).

KURKIN, Petr Ivanovich, prof., zasluzhennyy deyatel nauki [1858-1934];
MERKOV, A.M., prof., red.; PRIVEZENTSEVA, A.G., red.; KAPRALOVA,
A.A., tekhn.red.

[Problems of medical statistics] Voprosy sanitarnoi statistiki; izbrannye proizvedeniia. Pod red. A.M.Merkova. Moskva, Gosstatizdat TsSU SSSR, 1961. 421 p. (MIRA 15:5) (RUSSIA—STATISTICS, MEDICAL)

BRAGINSKIY, Boris Iosifovich; PRIVEZENTSEVA, A.G., red.; DUMNOV, D.I., red.; VASIL'KOVA, Ye.V., tekhn. red.

[Statistical groupings of collective and state farms based on labor productivity] Statisticheskie gruppirovki kolkhozov i sovkhozov po proizvoditel nosti truda. Moskva, Gosstatizdat TsSU SSSR, 1961.

114 p. (MIRA 14:11)

(Agriculture—Labor productivity)

GAABE, Yulius Eduardovich; LEVITIN, I.I., red.; PRIVEZENTSEVA, A.G., red.; MELENT'YEV, A.M., tekhn.red.

[Collection of problems in agricultural statistics] Sbornik zadach po statistike sel'skogo khoziaistva. Izd. 2., dop. i perer.

Moskva, Gos. stat. izd-vo, 1958. 173 p. (MIRA 12:1)

(Agriculture--Statistics)

AUTHORS :

Ginsburg, Y. A., Privezentseva, N. F.

79-28 3-39/61

TITLE:

On Iodine Derivatives of Methylphosphine (O yodistykh

proizvodnykh metilfosfina)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3,

pp. 736-739 (USSR)

ABSTRACT:

Of the iodine anhydrides of phosphorus organic acids only phenyldi-iodo-phosphine has been described until now. It was synthetized according to ref. 2 by the reaction of phenyldichlorophosphine with gaseous hydrogen iodide as hydriodide. It was shown that for the synthesis of the alkyl-phosphine iodide the reaction of chloroanshydrides of alkylphosphinic—and alkylsubphosphinic acids with hydrogen iodide can be valid. This is shown in this work by the formation of iodine derivatives in methylsphosphinic acid with gaseous hydrogen iodide dark-green crystals of the iodine derivative CH\_PF\_4 are precipitated, which, dissolved in water converts to methylphosss

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On Iodine Derivatives of Methylphosphine

79-28-3-39/61

phinic acid with strong separation of iodine. As is known pentaiodide is very unstable. According to Fursman and Lipkin (Ref. 3) some compounds of threevalent phosphorus (triphenylphosphite!) form a number of iodine derivatives with a complex-bound iodine, among  $(C_6H_5O)_3PJ_4$  and  $(C_6H_5O)_3PJ_9$ . In order to prove that the methyltetraiodide phosphorus synthetized by the authors derives from five-valent phosphorus as regards its structure it was treated with an excess of dry sodium ethylate on which occasion a diethylmethylphosphinate resulted under conditions excluding exidation; this excludes to a certain extent the possibility of a complex structure in form of  $CH_3PJ_2$ ,  $J_2$ , Besides methyltetraiodide of phos= phorus, a resinous product was obtained which on the ac= tion of water converts to methylphosphinic acid. All in all the reaction process can be represented by the following formula:  $3CH_3POCl_2 + 8 \text{ HJ} \longrightarrow 2 CH_3PJ_4 + CH_3PO (OH)_2 + 6 \text{ HCl.}$ In the reaction of methyldichlorophosphine with hydrogen a crystalline product is obtained which has the composition CH<sub>2</sub>PJ<sub>2</sub>.HJ, methyldi-iodophosphine. It seems that the ali= phatic dichlorophosphines react with HJ similar to the

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On Iodine Derivatives of Methylphosphine

79-28 3-39/61

aromatic ones (Refs. 1, 2): CH3PCl2 3HJ CH3PJ2. HJ + HCl.

The free methyliodidephosphine is obtained by the action of yellow phosphorus in carbon disulfide. All reactions within the series of methylphosphine iodides are repre-

sented by the last scheme.

There are 5 references, 1 of which is Soviet.

SUBMITTED:

January 25, 1957,

Card 3/3

5.3700C

\$/079/60/030/007/019/020 B001/B067 82301

AUTHORS:

Ginsburg, V. A., Privezentseva, N. F., Shpanskiy, V. A., Rodionova, N. P., Dubov, S. S., Khokhlova, A. M., Makarov, S. P., Yakubovich, A. Ya.

TITLE:

Reaction of Halogens, Nitrogen Oxide, and Polyfluorinated Ethylenes in Ultraviolet Light. Synthesis and Thermal Decomposition of Polyfluorinated Aliphatic Nitroso

Compounds

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 7,

pp. 2409 - 2415

TEXT: In continuation of their earlier paper (Ref. 1) the authors studied the reaction of polyfluorinated ethylene with NO and halogen in ultraviolet light. They assumed that atomic chlorine or bromine would also lead to the formation of  $\beta$ -halogen nitroso  $\beta$ -compounds. In fact, the authors of the present paper showed that in the reaction of nitrosyl chloride with symmetrical difluoro-dichloro ethylene, 1,2-difluoro-1,2,2-trichloro-nitroso ethane results in good yields. This compound

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Reaction of Halogens, Nitrogen Oxide, and Polyfluorinated Ethylenes in Ultraviolet Light. Synthesis and Thermal Decomposition of Polyfluorinated Aliphatic Nitroso Compounds

S/079/60/030/007/019/020 B001/B067 82301

proved sufficiently stable and could be isolated (compound 6 in the Table). The experiments showed, as had been theoretically expected, that in all cases the corresponding nitroso alkanes were obtained in sufficient yields on irradiation of the gas mixtures NO + Cl<sub>2</sub> or NO + Br<sub>2</sub> with polyfluorinated ethylenes (such as tetrafluoro-, trifluoro-chloro-, or trifluoro ethylene at the ratio olefin: NO: Hal<sub>2</sub> = 1: 1: 1/2) (Table). These compounds have an intensive blue color, and are stable liquids. Besides them also the corresponding alkylene dihalides as well as  $\beta$ -nitrogen halide compounds are always separated from the reaction mass. Probably they are products of a partial oxidation of the nitroso compounds. In reducing the nitroso compounds obtained from trifluoro ethylene by means of hydrogen iodide the corresponding fluorides of the chloro-difluoro- and bromo-difluoro-acetohydroxamic acids are formed which indicates the addition of the halogen to the CF<sub>2</sub> group of the olefin in the reaction between NO, Hal<sub>2</sub>, and olefin. The pyrolysis of

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Reaction of Halogens, Nitrogen Oxide, and S/079/60/030/007/019/020 Polyfluorinated Ethylenes in Ultraviolet B001/B067 82301 Light. Synthesis and Thermal Decomposition of Polyfluorinated Aliphatic Nitroso Compounds

the ClCF<sub>2</sub>CF<sub>2</sub>NO and NO<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>NO nitroso compounds at 120-130° yields the polyfluorinated ethylenimines ClCF<sub>2</sub>CF<sub>2</sub>N = CFCF<sub>2</sub>Cl and NO<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>N = CFCF<sub>2</sub>NO<sub>2</sub>, respectively. There are 1 table and 8 references: 3 Soviet, 1 US, and 2 German.

SUBMITTED: June 4, 1959

Card 3/3

YAKUEOVICH, A.Ya.; GINSBURG, V.A.; MAKAROV, S.P.; SHFANSKIY, V.A.;
PRIVEZENTSEVA, N.F.; MARTYNOVA, L.L.; KIR'YAN, B.V.; IEMKE, A.L.

Oxidation, reduction, and disproportionation of polyfluonitrosoal-kanes. Dokl. AN SSSR 140 no.6:1352-1355 0 '61. (MIRA 14:11)

 Predstavleno akademikami I.L.Knunyantsem i M.I.Kabachnikom. (Paraffins) (Nitroso compounds) (Oxidation-reduction reaction)

YAMUBOVICH, A.Ya.; MAKUMOV, M...; CHIBBURG, V.A.; PRIVEMENTSEVAL, M.F.;
MIRTYMOVA, L.L.

Pyrolysis and photolysis of polyfluoronitrosoalkanes, a reaction of nitroso compounds with nitrogen oxide.

Dokl. AN SSSR 141 no.1:125-120 H '61. (META 14:11)

1. Predstaveleno chaderilani i.l.Kumyantsem i M.I. Kabachnikom.
(Nitroso compounds)
(Nitrogen oxide)

MAKAROV, S.P.; YAKUBOVICH, A.Ya.; GINSBURG, V.A.; FILATOV, A.S.; ENGLIN, M.A.; PRIVEZENTSEVA, N.F.; PRIVEZENTSEVA, N.F.; NIKIFOROVA, T.Ya.

Reactions of polyfuorinated nitrosoalkanes with amines. Dokl. AN SSSR 141 no.2:357-360 N '61. (MIRA 14:11)

1. Predstavleno akademikami I.L.Knunyantsem i M.I.Kabachnikom.
(Nitroso compounds) (Amines)

ACC NR: AP6030553

SOURCE CODE: UR/0413/66/000/016/0031/0032

INVENTOR: Martynov, I. V.; Privezentseva, N. F.; Kruglyak, Yu. L.

ORG: none

TITLE: Preparation of mixed esters of alkylfluorophosphoric acids and halogen substituted oximes. Class 12, No. 184847

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 31-32

phosphate,
TOPIC TAGS: A alkyl fluorophosphate, halogenated oxime, dialkyl phosphate, ester,
phosphoric acid, halogenated organic compound, organic oxime compound, chamical reaction

In the proposed method, mixed esters of alkylfluorophosphoric acids and halogenated oximes are obtained by the reaction of dialkyl phosphates with chloronitro- or chloronitrosomethanes in an inert solvent.

[WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 17Aug63/

TRIVECENTISE UM, S.W. SAVEL YEVA, Z.D., kandidat meditsinskikh nauk; PRIVEZENTSEVA, S.N.; VOLKOVA, Z.A., kandidat meditsinskikh mauk Effect of working conditions on the course of gynecological algorithms and pregnancy. Sor.zdrav. 16 no.3:21-25 Ag '57. (MLRA 10:10) 1. Iz Institute akusherstva i ginabologii Ministerstva zdravookuraneniya RSFSR (dir. - dotsent L.G. Stepanov) i kafedry promyshlenay gigiyeny (zav. - prof. Z.D. Smelyanskiy) TSentral'nogo instituta usovershenstvovaniya vrachey (INDUSTRIAL HYGIENE eff. of working coma, in shee factory on etiol, of gyn. dis. & pregn.) (PREGNANCY eff. of working cond. in shoe factory) (GYNECOLOGICAL DISEASES, etiol. and nathogen. same)

PRIVEZENTSEVA, S.M., Cond Led Sci--(diss) "On the use of cutomeo-cranial forceps in obstetrics." Los, 1958. 15 pp (First Mos Order of Lemin Med Inst in I.F.Sechenov) (MJ, 47-58, 135)

- 74 -

PRIVEZENTSEVA, S.B.

Use of scalp forceps in delivery. Akush. i gin. 33 no.2:31-36

Mr-Ap '57.

1. Iz Mauchno-issledovetel'skogo instituta akusherstva i ginekologii

(dir. L.G. Stepanov) Ministerstva zdravookhraneniya RSFSR.

(DELIVER

forceps, indic. & follow-up)

#### PRIVEZENTSEVA, S.N.

THE CONTRACTOR OF STREET

Treatment of nipple cracks with medication administered in form of aerosols. Akush. i gig. 33 no.2:37-39 Mr-Ap '56. (MLRA 9:7)

Iz Instituta akusherstva i ginekologii (dir. L.G.Stepanov)
 Ministerstva zdravookhraneniya SSSR.
 (BREAST, dis.

nipple cracks, ther., aerosols)
(ANROSOLS, ther. use
nipple cracks)

LOKTIONOVA, N.A.; RASTVOROVA, N.M.; KOVRIZHNYKH, V.G.; KOMAROVA, N.K.;

TELIS, M.Ya.; DOBATKIN, V.I., rukovoditel' raboty; Prinimali
uchastiye: VINOKUROV, N.G.; PONAGAYBO, Yu.N.; PERETYKINA, I.N.;

BULGAKOV, G.F.; PYATUNINA, V.I.; TITKOV, S.M.; KALMYKOV, K.V.;

BRASLAVSKIY, D.N.; VEYSMAN, S.Ya.; APER'YANOVA, N.N.;

PANTYUSHKOVA, N.S.; PRIVEZENTSEVA, T.V.

Ways to reduce warping of large-size parts made of the AK4-1 alloy. Alium. splavy no.3:271-284 164. (MIRA 17:6)

ACC NR: AP600			SOURCE COD	E: UR/0170/66	n Marke	55
AUTHORS: Pr	vin, M. R.;	Chudnovskiy,	A. F.		SAME OF THE	$\mathcal{B}$
ORG: Aeroph	sics Institut	te, Leningrad	<u> (</u> Aerofiziches	kiy institut)	ei	
TITLE: The	wo-dimension	al temperature	field of a s	emiconductor	thermopile	
		heskiy zhurnal				
TOPIC TAGS: order equati ABSTRACT: A conductor th	thermoelectron, different nalytic relatermopile for	ic equipment, ial equation, ions for the tsteady-state of t pass through ted. The tem	heat balance, heat equation two-dimensions operation are	semiconductor, thermal emf	field of a scell of a the	emi- ermopila of the
Tuenraning -	$\int \partial^4 T_1 +$	$\frac{\partial^2 T_1}{\partial y^2} + \frac{i^2 \rho}{\lambda_1} = 0,$	$0 \leqslant x \leqslant l,  0$	$\leq y \leq \delta_1;$		
	∂x² ·	$\partial y^2 = \lambda_1$		< u < 8		
		$\frac{\partial y^3}{\partial x^3} + \frac{\lambda_1}{\partial y^3} = 0,$	U. x 1, 01	and the second s		

L 26394-66	702	$0 < y < \delta;  T_1(x, y)$	$=T_{\bullet}(x, y)=T_{\bullet}$		0
ACC NRi AP600'		$0 < y \le 8$ ; $T_1(x, y)$	= 11(~, 0)		
		0 < x < 1,  y = 0;	$\frac{\partial I_1}{\partial y} = 0;$		
		$0 < x < 1, y = 3; \frac{\partial}{\partial x}$	$\frac{\partial T_1}{\partial u} = 0$		
		$y=\delta_1;  T_1(x, y)=T_1$	$\sum_{1}^{n} (x, y); \ \lambda_{1} \frac{\partial T_{1}}{\partial u} = \lambda_{2} \frac{\partial T_{2}}{\partial u}$	<u>•</u> •	
	0 < x < 1,	y and off	,		
The solutions	2 🕏	$\frac{1}{2} \left( i^2 \rho l^3 \left[ 1 - (-1)^k \right] \right)$	$\int_{-\infty}^{\infty} \frac{1}{1-\lambda_{n}} \cosh k\pi \frac{y}{1-\lambda_{n}} dt$	$1k\pi\frac{\delta_2}{l}\times$	
	$T_1(x, y) = \frac{1}{1} \sum_{k=1}^{\infty} \frac{1}{x^k}$	$\sum_{i=1}^{\infty} \left\{ \frac{i^2 \rho  l^3 \left[1 - (-1)^k\right]}{(k  n^3)^3  \lambda_1} \right.$			
	$\times (\lambda_1 \sinh k\pi \frac{\delta_1}{l} + 1)$	$\lambda_2 \operatorname{ch} k \pi \frac{\delta_1}{l} \operatorname{th} k \pi \frac{\delta_2}{l} \Big)^{-1}$	$\left -\frac{[T(-1)^n-T_0]t}{k\pi}\right $	$\sin k\pi \frac{1}{l}$ ;	
	2	$\sum_{i=1}^{\infty} (i^{2} \rho i^{3} [1 - (-1)^{k}])^{k}$	$\frac{1}{1} \left[ \left( \lambda, \operatorname{ch} k \pi \frac{8 - y}{2} \right) \right]$	$k\pi \frac{\delta_1}{I} \times$	
	$T_{s}(x, y) = \frac{1}{l}$	$\sum_{k=1}^{\infty} \left\{ \frac{i^3 \rho  l^3 \left[1 - (-1)^k\right]}{(k  \pi)^3  \lambda_1} \right\}$			
	×	$\left(\lambda_1 \operatorname{ch} k\pi \frac{\delta_2}{l} + \lambda_1 \operatorname{ch} k\right)$	$\pi \frac{\delta_2}{l} \operatorname{th} k \pi \frac{\delta_1}{l}$		-
		$T(-1)^{k}-T_{0}$	$\left\{\frac{1}{2}\right\}\sin k\pi \frac{x}{t}$		

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to	ention	of its	boun	d T <sub>2</sub> at all daries x = 0 fluxes to t	and x = 1	l. The	obtain	ned for	mulas c	an also	be u	sed
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ZHABIN, A.I.; RYBAL'CHENKO, P.S.; PRIVIS, L.I.; PODMOGIL'NYY, V.I.

Lapping conic couplings of parts. Mashinostroitel' no.2:1012 F '64.

(MIRA 17:3)

sov/179-59-3-4/45 Pritvits, N. A. (Novosibirsk) AUTHOR:

The Hydraulic Calculation of a Round Sump with TITLE: Continuous Circular Operation (Gidrodinamicheskiy

raschet kruglego tsirkulyatsionnogo otstoynika

nepreryvnogo deystviya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Mekhanika i mashinostroyeniye, 1959, Nr 3,

pp 25-31 (USSR)

ABSTRACT: A diagram of a sump for collecting sediments at its bottom, designed by F. S. Salakhov in 1945 (p 25, fn 1) is

illustrated in Fig 1. The motion of flow is of a helical character, which is described by Eq (1) for the

limiting conditions Eqs (2), (3), where  $\psi$  (z,r) function of the flow (Fig 2), k and C - constants,  $Q_1$  - output of the purified liquid,  $Q_2$  - flush output.

The solution of the above equations can be found in two

ways.

1) The function  $\psi$  is substituted by the function U (Eq 4). Then Eq (1) will take the form of Eq (5) with

the limiting conditions Eqs (6) and (7). Its solution Card 1/3

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The Hydraulic Calculation of a Round Sump with Continuous Circular Operation

can be presented as a Fourier series, Eq (8). Thus, the formula (9) is derived which can be written as Eq (13). The function  $\psi$  can be found from Eq (4) as Eq (14) when Eq (13) is substituted into Eq (8). The velocities are defined as follows: circular, Eq (15); radial, Eq (16); axial, Eq (17). In the case of the potential motion (k = 0), the function  $\psi$  is found from Eq (18) and the velocity components from Eqs (19), (20) and (21). 2) The function U (Eq 22) is used for  $\psi$  . Then Eq (1) will take the form of Eq (23) for the limiting conditions (24) and (25). The continuous solution is obtained when the right term of Eq (23) is equalized to zero and the condition (24) presented as Eq (26), where  $J_1(x)$  - Bessel function,  $Z_{\lambda}(z)$  - function,  $\lambda$  - parameter determined from Eq (24). The equation (25) is solved as Eq (28), where  $Z_n$  is found from Eq (31) and the limiting conditions are found from Eqs (32) and (33). Thus, the value of the Card 2/3 function  $\psi$  can be derived from Eq (34). The velocities

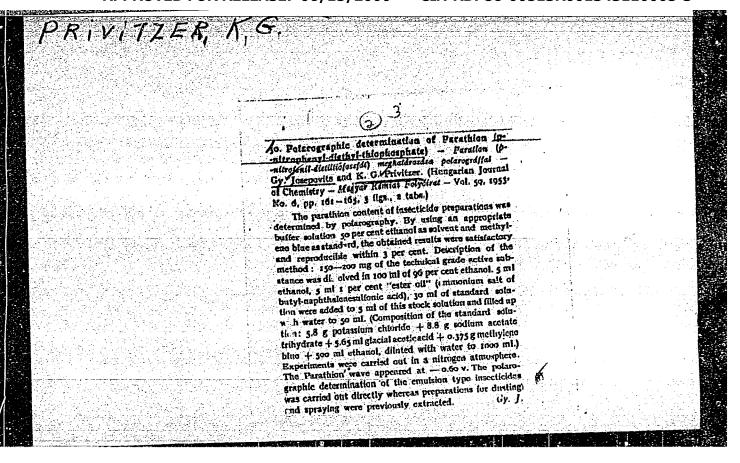
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The Hydraulic Calculation of a Round Sump with Continuous Circular Operation

are defined as follows: circular, Eq (15); radial, Eq (35) (or Eq (37) for the potential motion); axial, Eq (36). The results of calculations are illustrated in Figs 3 and 4. Fig 3 shows the characteristics of the flow: a - helical, b - potential. Fig 4 represents the distribution of velocities: 1 - axial velocity  $v_z$  along the horizontal axis, 2,3,4 - radial velocity,  $v_z$  in vertical cross-sections, 5 - circular velocity,  $v_z$  for  $v_z$  and the dashed lines represent the helical motion and the dashed lines represent the potential motion. Numerical values are given in cm/sec. There are 4 figures and 2 Soviet references.

SUBMITTED: February 13, 1959

Card 3/3



BAKHAREV, V.I.; DOZORTSEV, M.S.; KOSARENKO, M.F.; SAPRONOV, V.A.; PRIVLER, M.D.

Device for indicating the load on tear resistance testing machines for given deformations. Kauch. i rez. 24 no.11: 49 '65. (MIRA 19:1)

1. Dnepropetrovskiy shinnyy zavod.

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- 1. Obshchestvennyy instruktor po sotsial nomu strakhovaniyu Moskovskogo gorodskogo soveta professional ny kh soyuzov.

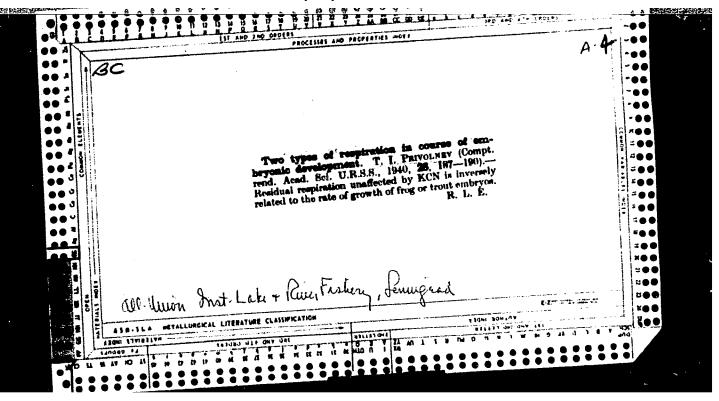
  (Moscow--Insurance, Social)

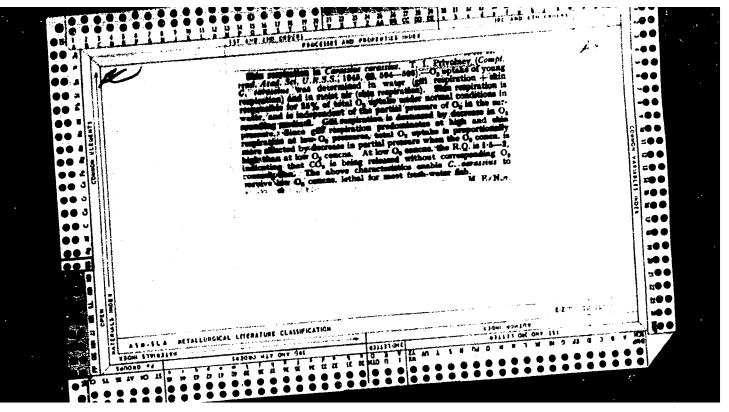
KHAIT, S.Z.; PRIVMAN, R.Yu. [deceased].

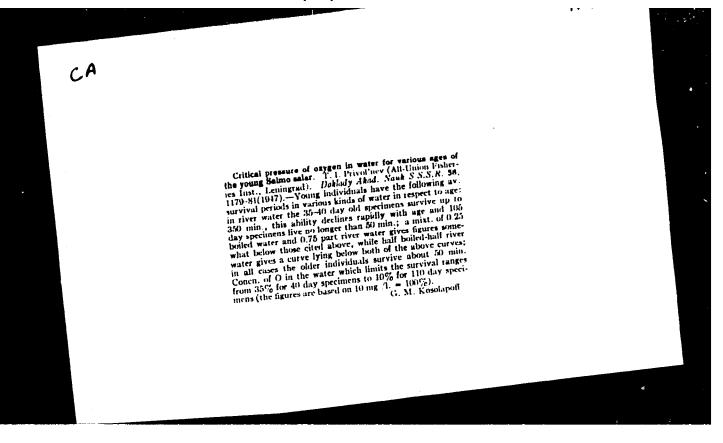
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(Wheat) (Bacteriology, Agricultural)







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2h:73 Privol'nev, T.I. Elektronarkoz Ryb I Ego Izpol'zovaniya V Zhivopibnom
Pele. fyb. Khdz-Vo, 19h9, No. 8, 5. 1h-15

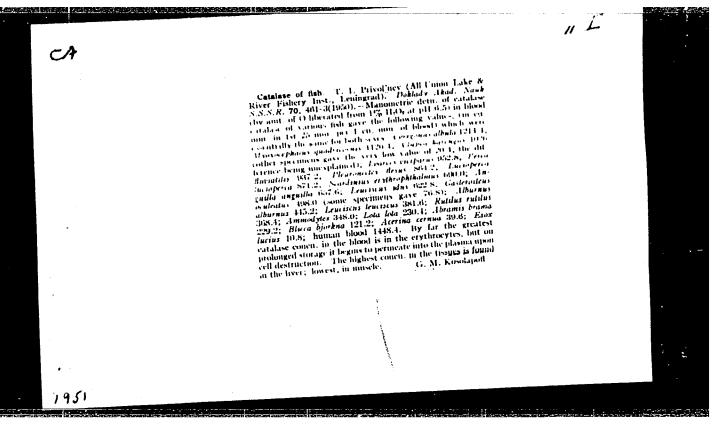
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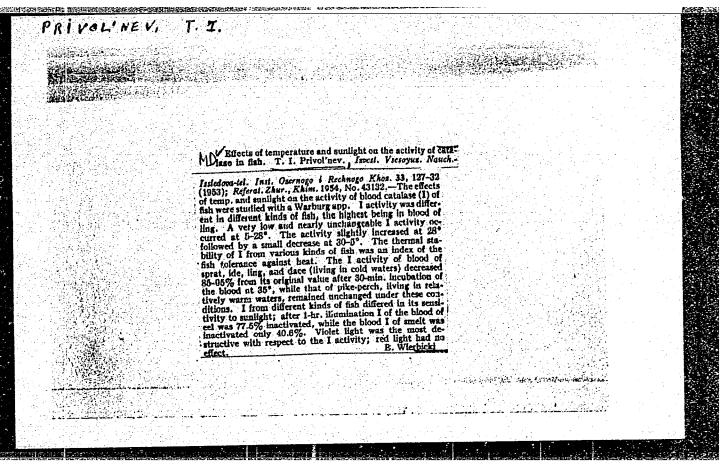
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